



# Label printer

## **a8+** The extra broad

## Precise printing: elaborate – made easy

### Transfer printer A8+



#### 1 Big graphic display

White backlight guarantees optimal legibility.

#### 2 Ribbon retainer

The threepart tightening axles allow a fast and easy ribbon exchange.

#### 3 Easy adjustment

The print head is pressed down with two sliding toggles. One is mounted to the left label margin, the other one is pushed to the right label margin.

#### 4 Peripheral connection

Add-on modules like cutter, external rewinder, present sensor, peel-off

adapter and applicators can be easily connected via USB peripheral interface. All peripheral devices are put onto the printer with two gudgeons and fixed with a bolt.

#### 5 Solid, buckling resistant metal chassis

It is made of dye-cast aluminium. All devices are assembled to it.

#### 6 Roll holder

Applicable for core diameters as of 38 mm. (we include adapters for core diameters from 76 mm for a better winding of the labels). The spring mounted margin stop

ensures constant tension while feeding and therefore a highly precise imprint.

#### 7 Only one tool for all maintenance tasks

The Allen key is located ready to hand directly at the printer.



## All required interfaces



- 1 RS232C interface.
- 2 USB 2.0 Slave interface.
- 3 Ethernet 10/100 Base T-interface with TCP/IP.
- 4 Slot for Wireless LAN-Wifi-card.
- 5 Two USB-Master-interfaces to connect an external operation panel, keyboard, scanner or Service Key.
- 6 Slot for memory card CompactFlash Type I.

### Options



Centronics interface bi-directional acc. IEEE 1284.  
Interface RS422/RS485 1.200 bis 230.400 Baud/8 Bit.

The interfaces are plugged onto the PC.  
Connection to the printer via mini USB connection cable.



Label selection box – I/O box.  
Up to 16 different labels can be loaded via SPS from a memory card. Operation of four in-/outputs via Basic Interpreter.



cab WLAN card 802.11 b/g.

## Stand-alone operation

### Printing with a cab printer without PC.

The layout of the labels is created either with the label software or direct programming via text editor directly on the PC. Label formats, fonts and graphic data, serial data and data base contents are saved or imported on the CF memory card or the internal IFFS printer memory.

Only variable data is sent to the printer via keyboard or host computer before being printed out. Data of a barcode scanner or a scale can be fed additionally.

### Accessories for the stand-alone operation



#### Memory card

CompactFlash Type I



#### Compact keyboard

Connection: USB  
Number of keys: 86

L x W mm: 282 x 132, Cherry Classic Line G84-4100 LCM



#### Standard keyboard

Connection: USB  
Number of keys: 115

L x W mm: 460 x 192, Cherry G83-6504 LAD

The functions of the devices and conformity to CE-standards are only warranted by using the accessories made by cab or recommended by cab.



J	<b>Job Start</b>
H 100	<b>Speed (100 mm/s)</b>
O R	<b>Orientation rotated by 180°</b>
S l1;0,0,68,70,100	<b>Size of label (100x68 mm, gap 2 mm)</b>
T 10,10,0,5,pt20;sample	<b>Text object/font: Swiss bold, 20 pt</b>
B 10,20,0,EAN-13,SC2;401234512345	<b>Barcode EAN 13, size SC 2</b>
G 8,3,5,0;R:30,9,0,3,0,3	<b>Graphic, box 30 x 9 mm,</b>
	<b>Line strength 0.3 mm</b>
A 1	<b>Number of labels (in this example 1)</b>

## Direct programming with J-Script

The printer language is easy to understand and integrate into your host system. Linkage of variable data with host application. Label design, graphics and fonts are recorded on the compact flash card. The host computer sends only the variable data to the printer.

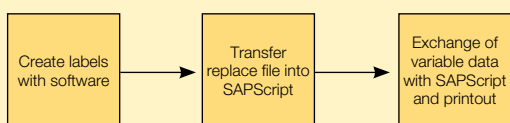
## Integration into SAP R/3

In collaboration with SAP cab developed the so-called "Replace method" in order to control the cab printers with SAPScript from SAP/R3.

As Silver Level-partner in SAP's Printer Vendor Program cab has access to the SAP development area for optimal printer support in an SAP environment.

SAP and R/3 are registered trademarks of SAP AG.

### SAP® Printer Vendor Program



Upload-Method SAP R/3 note no. 137431

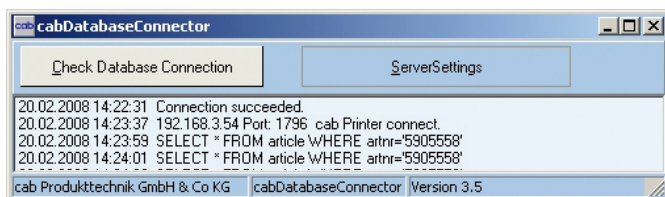
```

DEFAULT.LBL - Editor
Datei Bearbeiten Format Ansicht ?
<ABC>
DO
  LINE INPUT a$
  IF LEFT$(a$,15)="194300301480070" THEN
    PRINT "R t2;";MID$(a$,16)
  ENDIF
  IF LEFT$(a$,15)="194300300580172" THEN
    PRINT "R t3;";MID$(a$,16)
  ENDIF
  IF LEFT$(a$,15)="194300301970073" THEN
    PRINT "R t1;";MID$(a$,16)
  ENDIF
LOOP
</ABC>
  
```

## abc - Basic Compiler

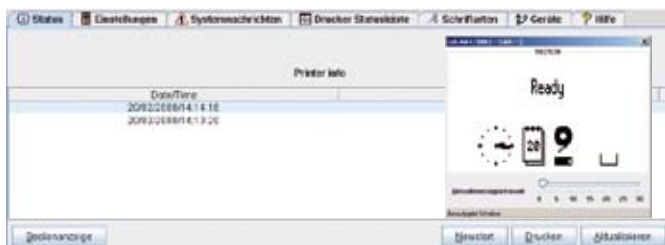
As an integrated element of the firmware it enables the printer to process data via BASIC programming before being transmitted to print editing. Thereby external printer languages can be replaced or data from other systems, e.g. SPS or a scale, can be transferred to be printed on different label sizes.

Example of use:  
Connection to a scale



## Database Connector

In the stand-alone mode with additional network connection the Database connector enables stand-alone printers to link up data from a SQL-compatible database and to print. Data can be rewritten and modified simultaneously with the printing process.



## Printer monitoring with Intra- and Internet

The integrated HTTP- and FTP-Server enables, with standard programs like web browser or FTP-clients, the print monitoring, configuration, the firmware-update and the administration of the memory card. Status signals, warning or error signals are sent to users or administrators either as email or SNMP-datagram via SNMP- and SMTP-clients. Synchronization of time and date with a time server.

cab Network Manager				
Device Tools Options Help				
Name	Type	Address	Status	Pin
cab	cab A4+7300	192.168.3.54	Ready	0-1
Support	cab D4+7300	192.168.2.111	n/a	0-1
Support	cab A6+7300	192.168.3.50	n/a	0-1

## Administration Network Manager

The cab network manager enables the user to govern several printers within the network at the same time. It supports monitoring, configuration, firmware updates, memory card, datasynchronization and PIN-administration centrally.





## Windows® driver

Our drivers are officially certified by Microsoft and ensure the direct creation and printing of labels from Windows-based programs like Word, Excel, Access, Works, Corel Draw etc.



## Apple-Mac OS X® driver\*

Alternatively cab offers a CUPS-based printer driver for MAC OS.



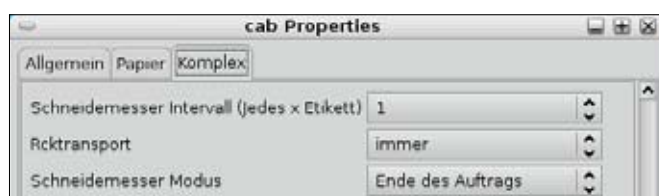
## Linux driver\*

Alternatively cab offers a CUPS-based printer driver for Linux.

\*not for XD4M

Microsoft® is a registered trademark of Microsoft Corporation.

MAC OS® is a registered trademark of Apple Computer, Inc.



# Label software



The ideal design of a label is realizable by using different fonts, heights, widths and arrangements. cab offers a large number of internal bitmap and vector fonts. Most of the country-specific codepages are supported, which means that county-specific special characters can be printed – in 24 languages.

## ● cablabel R2 Lite

Extensive standard label software. You get it - free of charge - included in delivery.

## ● cablabel R2 Pro

Maximum flexibility – whether simple texts, barcodes, graphics or the connection of databases. A wizard supports the creation of a UCC/EAN 128 barcode. It helps to open and handle several labels at the same time. Objects can be copied, moved and inserted into another label. It provides its own internal printer drivers which can communicate with the printer functions individually via J-Script.

## Additional label software

Optimum variability – the transfer printers and the print & apply systems from cab can be easily controlled with other merchantable software like Codesoft, Easylabel, Bartender, NiceLabel or Labelview.

<b>cablabel R2</b>	<b>Lite</b>	<b>Pro</b>
Windows 2000 SP4, XP Prof. SP2, Server 2003 SP2, Vista / 32 bit	■	■
24 languages	■	■
Label samples	■	■
Undo-function	■	■
Import of graphics	■	■
Graphic barcodes	9	37
Native printer barcodes	■	■
Support Windows driver		■
Number of printers	1	99
Database Manager (Access, DBF, ASCII, OLEDB, ODBC)		■
cab Database Connector		■
Stand-alone operation	■	■
Support printer real-time clock	■	■
Internal printer counter	■	■
Text alignment		■
User input (formular)	■	■
Formula editor		■
UCC/EAN 128 and Maxicode wizard		■

1. Print head		A8+
Print method		Thermal transfer / Thermal direkt
Print resolution dpi		300
Print speed up to mm/s		30, 40, 50, 75, 100, 125, 150
Print width mm		216
2. Material		
Labels, continuous rolls or fan-folded		paper, cardboard, textile, synthetics like PET, PE, PP, PVC, PU, Acrylat, PI
Material thickness mm / weight g/m²		0.055 - 1.2 / 60 - 300
Label width¹) mm		50 - 220
Width of liner or of continuous material mm		50 - 235
Label hight¹) mm		10 - 1000
Media roll:	Total diameter up to mm	205
	Core diameter mm	38 - 100
	Winding direction	outside or inside
3. Ribbon		
Ink		outside or inside
Roll diameter up to mm		72
Core diameter mm		25
Ribbon length variable up to m		360
Width up to mm		220
5. Dimensions of the printer		
Height x Depth mm		274 x 446
Width mm		352
Weight kg		15
6. Label sensor		
See-through sensor		for leading edge of the label or punching marks and end of material
Reflective sensor from the bottom / from the top		for printing marks
Distance to locating edge mm		5 - 53
7. Electronics		
Processor high speed 32 Bit ColdFire/Clock rate MHz		266
(RAM) MB		64
Memory IFFS MB Flash		8
Slot for memory CompactFlash-card Type I		■
Slot for Wireless LAN-card		■
Battery cache for		Real-time clock, printout of time and date Storage of data with shut-down
Warning signal		Acoustic signal when error
8. Interfaces		
Centronics bi-directional acc. IEEE 1284		□
RS232 C 1.200 up to 230.400 Baud/8 Bit		■
USB 2.0 High Speed Slave for PC-connection		■
Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP		■
RS422, RS485 1.200 up to 230.400 Baud/8 Bit		□
Peripheral connection		■
WLAN card 802.11b/g WEP/WPA PSK (TKIP)		□
2 x USB Master for		external operation panel, keyboard, scanner or service key
9. Operation data		
Power supply		100 - 240 V ~ 50/60 Hz, PFC
Power consumption		max. 300 W
Operation temperature		10 - 35°C
Humidity		30 - 85% not condensing
Approvals		CE, FCC class A, CB, CCC, UL

<sup>1)</sup> Depending on label size, material and adhesive limitations are possible.  
Critical material or applications have to be tested and cleared.

10. Operation panel		
Buttons illuminated/ LED-Graphics:	Pause, Feed, Cancel, Menu, Enter, 4 x Cursor	
LCD graphic display:	Width 60, Height 40 mm 4 lines, characters about 20	
11. Settings		
	Time, date, digital or analog clock	
	25 language settings	
	system settings, print parameters, interfaces, security	
12. Monitoring		
Stop printing if	End of ribbon End of labels Print head open	
On the display	Data reception WLAN field intensity Ethernet state Used memory Temperature print head Access to memory card Remaining quantity of ribbon	Clock Date sheet abc Debug Input buffer
13. Test routines		
System diagnosis	when switched on with testing of print head	
Short Status, Status print	font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state	
Status reports	Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.	
14. Fonts		
Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese) Optional Thai	
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBCDIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, KOI8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese	
Bitmap-Fonts	Size of width and height 1 - 3 mm zoom 2-10. Orientation 0°; 90°, 180°, 270°	
Vector-/TrueType fonts	Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°	
Font formats	Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts	
Font width	Variable	

15. Graphics		
Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading	
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
16. Codes		
Linear Barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Codabar EAN 8, 13 EAN/UCC 128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident- and leader code of Deut- sche Post AG JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code depending on code type.	
17. Software		
Programming	J-Script direct programming abc-Basic Compiler Database Connector	■ ■ □
System diagnosis/ Administration	printer monitoring Network Manager	■ □
cab Label software	cablabel R2 Lite* cablabel R2 Pro Easylabel, Codesoft	■ □ □
Additional Label software	Nicelabel, Bartender Label Matrix, Labelview	○
Windows driver	2000, XP 32/64 bit, 2003 32/64 bit, Vista 32/64 bit	■
Mac driver*	OS X printer driver from version 10.3	■
Linux driver*	Testet with Suse 9.0, CUPS based	■
Stand-alone operation		■
*not for XD4M		
Standard ■		
Option □		
Authorised distribution by resellers. ○		



**Innovative technology for a better climate protection.**  
**Energy-saving.**  
**Environmentally conscious.**

The specifications are according to our current technical knowledge. They are subject to change.

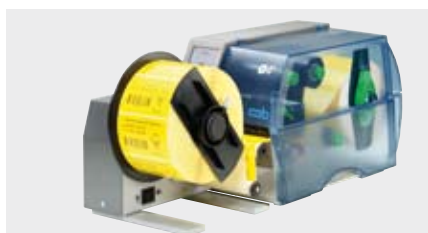
## Cutting, winding and unwinding of material



### Cutter

The cutter is used to cut paper, pressure sensitive labels, cardboard, textiles, synthetics or heat shrink tubes.

	Cutter CU8
Material width up to mm	232
Weight of material gr/m <sup>2</sup> /cardboard	60 - 500
Material thickness mm	0.05 - 1.2
Cutting length mm	< 5
Gap height up to mm	2.5
Cuts/min.	100
Stop print job if	Final position not reached



### External rewriter ER 1/2/3 for direct connection of the printer

The rewriter is screwed directly onto the printer. The label winding is optional inside or outside. A smooth and tight winding is due to the electronic control of the swing arm.



### External rewriter ER 4/6/8 with built-in power supply

The rewriter can be attached to almost every other printer. All other technical data are according to the rewriter ER 1/2/3.



### External unwinder EU 4/6/8

It enables a smooth feeding of labels for heavy rolls. The unwinder works both with inside and outside wound labels.

All examples for accessories are pictured with the thermal transfer printer A4<sup>+</sup>.



### External panel

If the panel is not accessible anymore, e.g. after installation within a facility, it is possible to install an external panel. Additionally there is a slot for a CF memory card Type I and a USB Master interface.

### Pause adapter PS7 for basic and dispense devices

The print job is stopped with the pause signal. The active label is finished, e.g. by using a label loop.










Inputs: Pause, external error











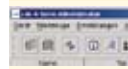

Outputs: No print job, printer not ready, print job active



	External rewriter		External unwinder
	ER3/210	ER8/300	EU8/300
Material width up to mm	235	235	235
Roll Ø max. mm	205	300	300
Core Ø mm	40 / 76	40 / 76	40 / 76
Operating voltage	from transfer printer	100 - 240 V~ 50/60 Hz	—
Label winding	outside or inside		



Part No.	Hardware	dpi
	<b>5954517.101</b> Transfer printer A8+ with metal cover	300
	<b>59545xx.102</b> Printer with RFID Read/Write unit 13,56 MHz	
<b>Content of delivery:</b>	Transfer printer, Power cable Type E+F, length 1,8 m Operation manual German/English	
<b>CD-ROM:</b>	Brief instruction Quick Start in 17 languages, Operating manual German/English, Service manual German/English, Spare part list German/English, Programming manual English, Windows printer driver 32/64 bit in 19 languages for Windows 2000 / XP / 2003 and Vista, MAC OS X and Linux driver, German/English and French cablabel R2 lite in 24 languages, operation manual English, French, Spanish, Italian and German	
Part No.	Consumables	
	<b>5954107.001</b> Print head 8/300	
	<b>5954103.001</b> Print roller DR8	
Part No.	Accessories	
	<b>5948002</b> Cutter CU8	
	<b>5959622</b> Adapter 100	
	<b>5945802</b> External rewinder ER3/210	
	<b>5945804</b> External rewinder ER8/300	
	<b>5945806</b> External unwinder EU8/300	
	<b>5948170</b> Connection set for ER/EU	
	<b>5946146.001</b> Pause adapter PS7	

Part No.	Accessories
	<b>5954380.001</b> External operation panel
	<b>5901630</b> Compact keyboard USB, Cherry Classic Line G84-4100 LCM
	<b>5901626</b> Standard keyboard USB Cherry G83-6504 LAD
	<b>5561043</b> Memory card CompactFlash Typ I
Part No.	Interfaces
	<b>5954200</b> Centronics interface <b>5954201</b> RS422/RS485 interface
	<b>5954191</b> Label selection - I/O-Box
	<b>5561041</b> WLAN-card 802.11 b/g
Part No.	Connecting cable
	<b>5901616</b> Cable USB length 3 m
	<b>5550818</b> Cable RS232 C 9/9-pin, length 3 m
Part No.	Software
	<b>5580212</b> Database Connector
	<b>5580215</b> Administration Network Manager
	<b>5580221</b> on request Label software cablabel R2 Pro Easylab, Codesoft
	<b>9008486</b> Programming manual English, printed copy

The specifications are according to our current technical knowledge. They are subject to change.

# The cab Delivery program



**MACH4**



**A+ Series**



**Hermes A**



**PX-Series**



**e4**



**Labels**



**Ribbons**



**Label software**



**HS150**



**Scanner / MDE**



**FL-Series**



**Laser safety housing**



## Germany

cab Produkttechnik  
GmbH & Co KG  
Postfach 1904  
D-76007 Karlsruhe  
Wilhelm-Schickard-Str. 14  
D-76131 Karlsruhe  
Telefon +49 721 6626-0  
Telefax +49 721 6626-249  
www.cab.de  
info@cab.de

## France

cab technologies s.a.r.l.  
F-67350 Niedermodern  
Téléphone +33 388 722 501  
www.cab.de  
info@cab-technologies.fr

## España

cab España S.L.  
E-08304 Mataró (Barcelona)  
Teléfono +34 937 414 605  
www.cab.de  
info@cabsi.com

## USA

cab Technology Inc.  
Tyngsboro MA, 01879  
Phone +1 978 649 0293  
www.cabtechn.com  
info@cabtechn.com

## South Africa

cab Technology (Pty.) Ltd.  
2125 Randburg  
Phone +27 11-886-3580  
www.cab.de  
info@cabtech.co.za

## Asia 亞洲分公司

希愛比科技股份有限公司  
cab Technology Co., Ltd.  
台灣台北縣板橋市民生路一段  
Panchiao 220, Taipei, Taiwan  
電話 Phone +886 2 2950-9185  
網址 www.cabasia.net  
詢問 cabasia@cab.de

## China 中国

铭博(上海)贸易有限公司  
cab (Shanghai) Trading Co., Ltd  
上海市延安西路2299号11C60室  
电话 Phone +86 21 6236-3161  
询问 cabasia@cab.de

© Copyright bei cab

**Representatives in other countries on request.**

This documentation as well as the translations hereof are properties of cab GmbH & Co KG.  
The replication, the processing, the reproduction or the propagation on the whole or in parts requires our prior written agreement.